Algebra 1Keystone Review on Khan Academy

**MODULE 1**

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| **Operations with Real Numbers and Expressions** |
| Ordering Fractions |
| Ordering negative numbers |
| Square roots of perfect squares |
| Estimating Square Roots |
| Simplifying radicals |
| Simplifying Expressions with Exponents |
| Exponent Rules |
| Negative Exponents |
| Understanding Fractional exponents |
| Manipulating Fractional Exponents |
| Fractional Exponents |
| Absolute Value Word Problems |
| Order of operations with Negative Numbers |
| Adding and Subtracting Radicals |
| Evaluating Expressions in one variable |
| Evaluating Expressions in two variables |
| Combining Like Terms |
| Combining like terms with distribution |
| Multiplying Expressions |
| Multiplying Polynomials 2 |
| Factor Linear Binomials |
| Factoring Difference of Squares1 |
| Factoring Difference of Squares 2 |
| Factoring Quadratics |
| Factoring Quadratics 2 |
| Simplifying Rational Expressions 2 |

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| **Linear Equations** |
| 2 step Equations |
| Linear equation Word Problems2 |
| Equations with variables on both sides |
| Absolute Value Equations |
| Multi Step Equations with Distribution |
| Age word problems |
| Integer sums |
| Graphing Systems of equations |
| Systems of Equations with simple elimination |
| Systems of equations with elimination |
| Systems of equations with substitution |
| Systems of equations with word problems |
| Graphing points and naming quadrants |
| Ordered pair solutions to linear equations |
| Linear function intercepts |

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| **Linear Inequalities** |
| One step Inequalities |
| Multi-Step Linear Inequalities |
| Compound Inequalities |
| Interpreting and solving Linear Inequalities |
| Graphing Systems of Inequalities |
| Graphing and solving systems of linear inequalities |

**MODULE 2**

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| **Functions** |
| Understanding function notation |
| Recognizing Functions |
| Domain of Functions |
| Range of Functions |
| Domain and Range from graph |

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| **Coordinate Geometry** |
| Identifying slope of a line |
| Graphing Linear Equations |
| Solving for the y intercept |
| Slope intercept form |
| Point slope form |
| Converting between slope intercept and standard form |
| Converting between point slope and slope intercept form |
| Average Rate of Change |

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| **Data Analysis** |
| Estimating the line of best fit |
| Mean, Median Mode |
| Creating box and whisker plots |
| Average word problems |
| Understanding Probability |
| Probability 1 |
| Finding Probability |
| Independent Probability |
| Compound Events |
| Dependent Probability |